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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/551,078	04/18/2000	Rajiv Laroia	15-8-4-1	1876 .
26479 75	590 03/29/2005		EXAM	INER
STRAUB & POKOTYLO 620 TINTON AVENUE		BURD, KEVIN MICHAEL		
BLDG. B, 2ND FLOOR		ART UNIT	PAPER NUMBER	
TINTON FALLS, NJ 07724			2631	

DATE MAILED: 03/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/551,078	LAROIA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Kevin M. Burd	2631			
The MAILING DATE of this communicate Period for Reply	ion appears on the cover sheet wit	h the correspondence address			
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communic - If the period for reply specified above is less than thirty (30) da - If NO period for reply is specified above, the maximum statuto - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no event, however, may a reation. 195, a reply within the statutory minimum of thirty 17 period will apply and will expire SIX (6) MONT 18 by statute, cause the application to become AB/	ply be timely filed (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed o	n 24 November 2004.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ⊠ Claim(s) 1-52 is/are pending in the apple 4a) Of the above claim(s) is/are versions. 5) ⊠ Claim(s) 1-49 is/are allowed. 6) ⊠ Claim(s) 50-52 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restrictions.	vithdrawn from consideration.				
Application Papers					
9)☐ The specification is objected to by the E	xaminer.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by	the Examiner. Note the attached	Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International * See the attached detailed Office action for	cuments have been received. cuments have been received in Aphe priority documents have been Bureau (PCT Rule 17.2(a)).	oplication No received in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892)	4) ∏ Interview S	ımmary (PTO-413)			
 Notice of Praftsperson's Patent Drawing Review (PTO-3) Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date 8/16/2004. 	948) Paper No(s)	/Mail Date formal Patent Application (PTO-152)			

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1. This office action, in response to the amendment filed 11/24/2004, is a final office action.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 8/16/2004 is being considered by the examiner.

Response to Amendment

3. Applicant's arguments see the remarks on pages 26-28 filed 11/24/2004, with respect to claims 1-48 have been fully considered and are persuasive. The rejections of these claims have been withdrawn.

New claims 50-52 are rejected as stated below.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 50-52 are rejected under 35 U.S.C. 102(b) as being anticipated by Hakkinen et al (WO98/10542) (Hakkinen et al (US 6,282,185) is used since it is the equivalent of US 6,282,185).

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Regarding claims 50-52, Hakkinen discloses an OFDMA system (column 1, lines 32-48). A number of base stations transmit frequency-hopping signals (column 1, lines 9-12). Figure 2 shows the frequencies used to transmit by one of the base stations for multiple symbol periods. Each of the tones is separated by one another by at least one tone (frequency). The frequencies will always be different and each of lines 20-23 show the slope of the transmissions. From T1 to T2, a number of frequencies are used. At T2 a hop occurs, changing the slope to a new value until T3. Figure 3 shows the pilot is transmitted in this manner. The base stations use different frequencies to transmit data otherwise base stations would interfere with one another and no data would be recovered.

Allowable Subject Matter

5. Claims 1-49 are allowed.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin M. Burd whose telephone number is (571) 272-3008. The examiner can normally be reached on Monday - Thursday 9 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin M. Burd

KEVIN BURD PRIMARY EXAMMER